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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,821	02/25/2004	Young-Sun Kim	11281-024-999	5125
20583	7590	10/10/2007	EXAMINER	
JONES DAY 222 EAST 41ST ST NEW YORK, NY 10017			LEUNG, QUYEN PHAN	
		ART UNIT	PAPER NUMBER	
		2874		
		MAIL DATE		DELIVERY MODE
		10/10/2007		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/786,821	KIM ET AL.	
	Examiner Quyen P. Leung	Art Unit 2874	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 11-19 is/are allowed.
- 6) Claim(s) 1-3 and 7-10 is/are rejected.
- 7) Claim(s) 4-6 is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 20051121.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_.

**DETAILED ACTION*****Claim Rejections - 35 USC § 102***

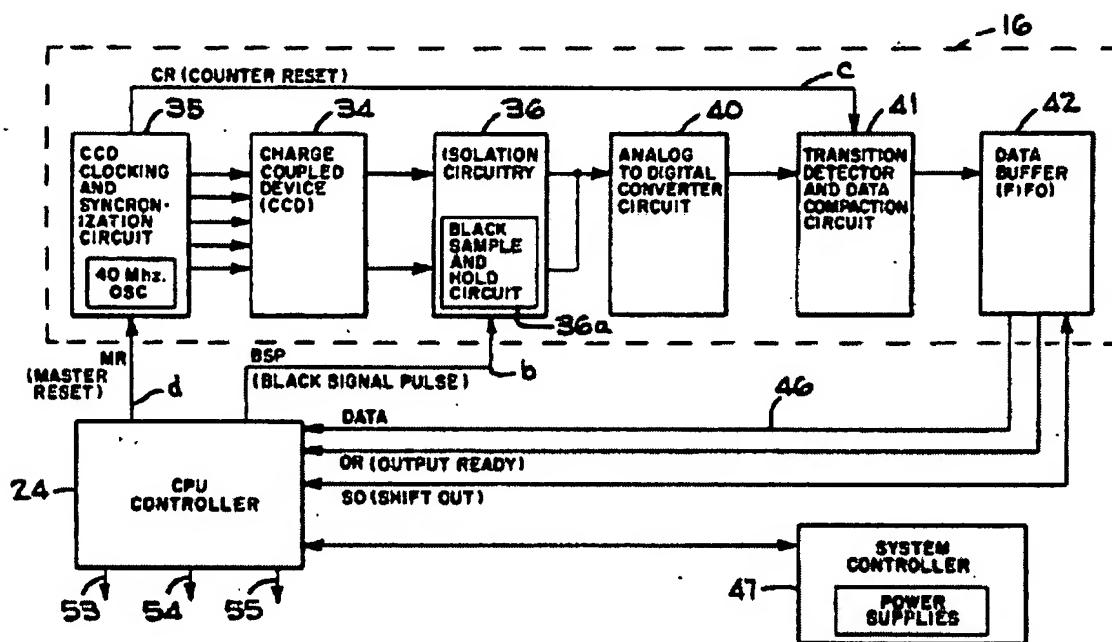
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Turcheck , Jr et al (5,103,304). Turcheck, Jr et al discloses the claimed invention.

Re claim 1, Turcheck, Jr et al discloses an apparatus for acquiring image information using an array of an image acquisition units (CCD 34), each having an



optical device (pixel), comprising: a geometric array of image acquisition units (see col. 2 lines 3-5), each having an optical device (pixel) generating an electrical signal (see waveform "a" in figure 4) depending on image intensity of a subject; and an image signal output unit (36) for receiving the electrical signal from the array (34) and then generating a source electrical signal to process analog image.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 3, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Turcheck Jr, et al,

Turcheck Jr et al has been discussed above, except for the

- Re claim 2, the array of image acquisition units is changeable in accordance with a geometric shape of the subject.
- Re claim 3, the array of image acquisition units has a square, radial or circular shape, or combination thereof.
- Re claim 7, the apparatus for acquiring image information according to claim 1, further comprising: an image information processing unit for generating analog image information by processing the source electrical signal; and an image

information display unit for displaying the analog image information generated through the image information processing unit.

- Re claim 8, the apparatus for acquiring image information according to claim 1, further comprising a light emitting unit having an optical device for supplementing deficient light quantity.
- Re claim 9, the apparatus for acquiring image information according to claim 1, further comprising an array of light emitting units, each having an optical device, which supplements deficient light quantity and is arranged in a geometric shape.
- Re claim 10, the apparatus for acquiring image information according to claim 1, wherein a program for calculating a value with respect to dimension of the subject by using geometric location and dimension information of the image acquisition unit is installed in the apparatus.

Re claims 2 and 10, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. Note further claim 10, the CPU in Turcheck Jr et al is capable for performing the calculation as claimed. See also col. 1 lines 30-37.

Re claims 3, 8-9, lacking any stated criticality it would have been an obvious design choice to change the shape of Turcheck Jr et al from linear to square, radial, circular or the combination thereof or to include the light emitting units.

Re claim 7, see figure 2 and col. 2 lines 60-65 for the display unit (48). Lacking any stated criticality it would have been an obvious design choice to have analog instead of digital

***Allowable Subject Matter***

Claims 4-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-19 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571) 272-8188. The examiner can normally be reached on normally M-F, 6:15 am - 2:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/  
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qpl